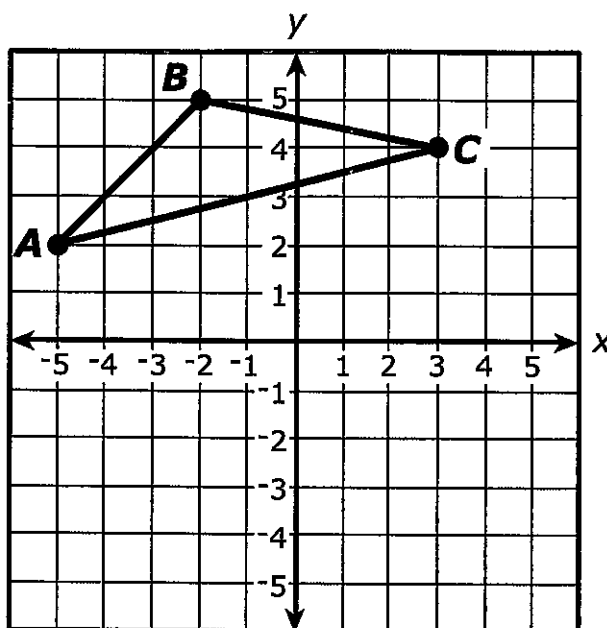


Name: \_\_\_\_\_

Date: \_\_\_\_\_

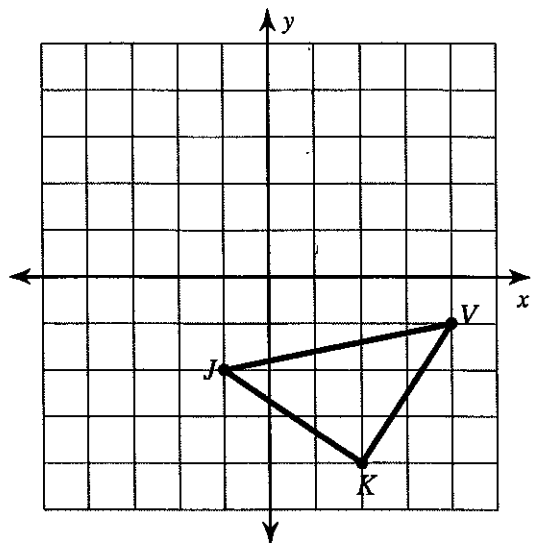
Per.: \_\_\_\_\_

### 2.3 More Rotations on the Coordinate Plane



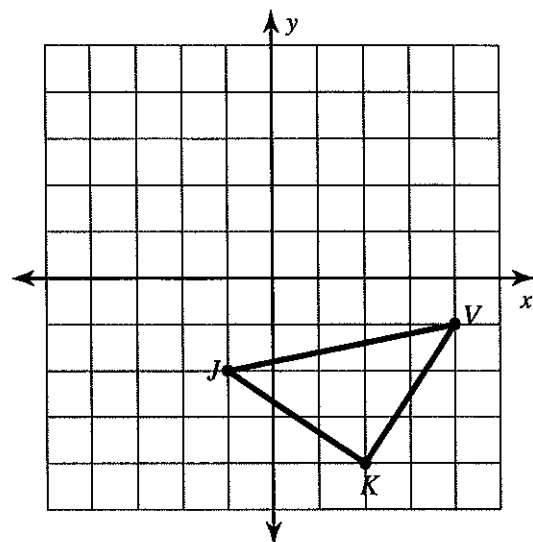
1. Rotate Triangle ABC  $180^\circ$  about (0, 2). Label it A'B'C'.
2. Prove that it is a  $180^\circ$  rotation by:
  - a. finding the angle of rotation (using slope)
  - b. showing that two corresponding points have the same distance from the center
3. Rotate Triangle ABC  $90^\circ$  about (2, 2). Label it A''B''C''.
4. Prove that it is a  $90^\circ$  rotation by
  - a. finding the angle of rotation (using slope)
  - b. showing that two corresponding points have the same distance from the center

**WLPCS**  
**Geometry**



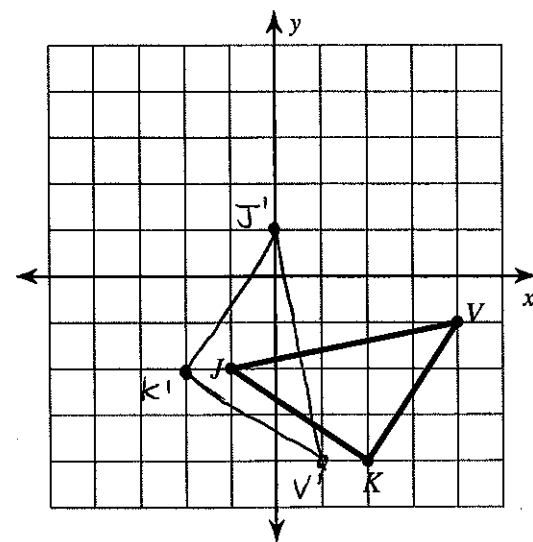
Center: (1, 1)

Degree:  $180^\circ$



Center: (-1, 1)

Degree:  $90^\circ$



Determine the center and the degree of rotation.